

In the Claims

Please replace all prior versions, and listings, of claims in the application with the following list of claims:

1. (Original) A composition of matter comprising:
a compound having a structure of Formula I



wherein A is an agent; L_1 and L_2 are organic linkers or bonds; X_1 and X_2 are reactive moieties selected from Group A, N-hydroxy-succinimide, N-alkyl maleimide and derivatives thereof; and

wherein L_2 and X_2 may be present or absent, however if L_2 is absent, then X_2 is also absent.

2. (Original) The composition of claim 1, wherein the agent is selected from the group consisting of a sunscreen agent, a cosmetic, an enzyme, a coloring agent, a pharmaceutical agent, a member of a ligand/receptor pair, a tissue sealant, a bulking agent, a hair conditioning agent, a hair fixative, a coloring agent, a moisturizing agent, a depilatory agent, an anti-nerve gas agent, a film forming agent, a vitamin, an insect repellant and a component of a high affinity noncovalent coupling.
3. (Original) The composition of claim 1, wherein the agent is an enzyme that degrades nerve agents.
4. (Original) The composition of claim 3, wherein the agent is selected from the group consisting of OPAA anhydrolase and squid type OPA anhydrase.
5. (Original) The composition of claim 1, wherein the agent is a nonprotein.
6. (Original) The composition of claim 1, wherein the agent in its native form free of conjugation to the reactive molecule is not able to covalently attach to a body tissue.

7. (Original) The composition of claim 1, wherein the composition does not comprise a microparticle.

8. (Original) The composition of claim 1, wherein X_1 , X_2 or X_1 and X_2 is dihydroxyacetone.

9. (Original) A method for attaching an agent to a body tissue comprising:
applying to the body tissue a compound having a structure of Formula I



wherein A is the agent; L_1 and L_2 are organic linkers or bonds; X_1 and X_2 are reactive moieties selected from Group A, N-hydroxy-succinimide and N-alkyl-maleimide; and

wherein L_2 and X_2 may be present or absent, however if L_2 is absent, then X_2 is also absent in an effective amount, and

allowing said crosslinking to occur.

10. (Original) The method of claim 9, wherein the body tissue is selected from the group consisting of the integument, skin, hair and nails, a wound bed, and internal body tissue.

11. (Original) The method of claim 9, wherein the agent is selected from the group consisting of a cosmetic agent, a bulking agent, a hair conditioning agent, a hair fixative, a sunscreen agent, a moisturizing agent, a depilatory agent, an anti-nerve gas agent, a film forming agent, a vitamin, an insect repellent, a coloring agent, a pharmaceutical agent, a ligand-receptor complex and a receptor of a ligand-receptor complex.

12. (Original) The method of claim 9, wherein the agent is an enzyme that degrades nerve agents.

13. (Original) The method of claim 9, wherein the agent is selected from the group consisting of a OPAA anhydrolase and squid type OPA anhydrase.

14-19. (Cancelled)

20. (Original) A pharmaceutical composition comprising:
a compound of Formula I,



wherein A is an agent; L_1 and L_2 are independently selected organic linkers or bonds; X_1 and X_2 are reactive moieties independently selected from the Group A; and
wherein L_2 and X_2 may be present or absent, however if L_2 is absent, then X_2 is also absent, and
a pharmaceutically acceptable carrier.

21. (Cancelled)

22. (Original) A kit comprising
a package housing:
a container containing the composition of claim 1, and instructions for use.

- 23-73. (Cancelled)

74. (New) The method of claim 9, wherein the agent is a nonprotein.
75. (New) The method of claim 9, wherein the compound does not comprise a microparticle.
76. (New) The method of claim 9, wherein X_1 , X_2 or X_1 and X_2 is dihydroxyacetone.
77. (New) The pharmaceutical preparation of claim 20, wherein the agent is selected from the group consisting of a cosmetic agent, a bulking agent, a hair conditioning agent, a hair fixative, a sunscreen agent, a moisturizing agent, a depilatory agent, an anti-nerve gas agent, a film forming agent, a vitamin, an insect repellent, a coloring agent, a pharmaceutical agent, a ligand-receptor complex and a receptor of a ligand-receptor complex.